Abstract of the Invention

A system and method is provided for reordering the transmission of data packets in a queue of a radio system when an error occurs during the transmission of a data packet to any device destination address. A transmission ordering component is provided that transmits data packets in a queue one at a time until a transmission error occurs for a given destination address. The transmission ordering component then searches through the queue for a data packet with a different destination address than the current destination address being transmitted. The transmission ordering component then returns to transmitting packets one at a time until the end of the queue is reached. Once the end of the queue is reached the transmission ordering component reorders the queue and moves the packets in which transmission errors have occurred to the beginning of the queue. The transmission ordering component then repeats the transmitting data packets one at a time.